

# BITUMINOUS COAL SOURCE OF DANGER

## Expert Discusses Methods of Firing in the Public Schools.

### GREAT CARE IS DEMANDED

### Unless Fireman Knows His Business, Accidents Are Likely to Occur— Change of Grate Bars Necessary to Avoid Trouble.

The impossibility of securing bids for supplying anthracite coal for the Boys' Reform School on the Bladenburg Road has necessitated the use of bituminous fuel at that institution.

Col. Cecil Clay yesterday closed a contract with William J. Zeh for 300 tons of bituminous at \$5.30 a ton, delivered at the school.

This supply will last the school several months, when it is hoped the settlement of the coal strike will then permit of securing anthracite as usual.

The school authorities also bought yesterday three tons of anthracite in the open market, all the fuel of that kind which could be secured.

In this connection it may be said the methods of firing with soft and hard coal are radically different, and it is feared those charged with keeping up the heat cannot be sufficiently impressed with this fact.

A coal and heating expert said yesterday the responsibility of the authorities did not cease with the laying in of a coal supply, and they should recognize the character of the change and impress on every janitor the special and constant menace of soft coal in furnaces built for anthracite. He said the lowering of the grates, the first remedy to suggest itself to anyone acquainted with heating problems, was well-nigh impossible. The boilers in the District schools are nearly all built in such a way that lowering the grate would necessitate a week or ten days' work in each case. The only way to avoid probable accidents, in his opinion, is to require the fireman to remain constantly at the firebox and feed coal carefully. It is known to anyone who has ever used soft coal that it gives fierce heat for a short time, and that a dangerous temperature in a furnace is only a matter of a few minutes. Intelligent recognition of this fact is highly important.

### Few Bituminous Furnaces.

There are 130 school buildings in the District. The furnaces in nearly all of them were built for anthracite coal. Only in the Eckington, Gales, Webster and one or two other buildings has soft coal been used regularly. Of the janitors of the buildings, not half are firemen in the technical sense. About twenty-five, it is said, are licensed engineers. The coal and heating expert above quoted says probably half the janitors are ignorant of the danger and are, unless specially warned, liable to load up the fireboxes and go about the buildings as they have been used to doing. In his opinion, such a course will result in damage and probable loss of life. Soft coal should be fed to the flames frequently and in small quantities. Coke, which is to be used extensively, is worse than soft coal for quick combustion and rapid heating.

In heat units, 2,100 pounds of soft coal equal 1,700 pounds of hard coal, either being equivalent to a cord of oak wood. This distinct difference should be borne in mind by all who have the care of boilers. The difference in boilers for soft and hard coal is simply a matter of cubic feet of air and of oxygen supply. The bituminous coal requires materially more space than anthracite. Attention has been specially called to the danger of soft coal in furnaces built for the use of hard coal by the explosion in the plant of the Girard Trust Company, Philadelphia, in which two men were killed. It was plainly shown at the inquest that the use of soft coal was responsible for the accident. The furnaces had been constructed for the use of anthracite and the heat from the soft coal was too much for the boilers, and they rapidly weakened and the plates bulged.

A boiler expert, in speaking of the accident and the danger in all plants where from necessity the change must be made, said:

**An Expert Opinion.**

"If not used properly bituminous coal will damage a boiler greatly. When anthracite is to be used the grate bars are usually set from 18 to 24 inches from the boiler. For soft coal this space is made greater, from 30 to 33 inches. This is because the soft coal makes more flame.

"When soft coal is used in place of anthracite, great care must be taken to prevent the boiler plates from being overheated, and bulging outward under the steam and water pressure.

"Soft coal should not be fired in the same way as anthracite. The latter when shoveled into the firebox is spread in a layer over the fire surface. When this is done with bituminous, flames are liable to break through the layer and act as a blowpipe on several spots in the boiler plates, lifting the water above these points and overheating the plate, which, in consequence, bulges outward.

"In firing bituminous coal the green fuel must be stacked just inside the furnace door. Beyond this heap, extending to the back of the combustion chamber, should be a layer of incandescent fuel. Thus the coal near the furnace door is cooled, the gases which are emitted being consumed as they pass over the white-hot bed of coals. With this method of firing there is no danger of injuring the plates.

"For economy, however, users of soft coal should have their grate bars thirty or more inches below the boiler. This gives the greater combustion space necessary."

**Very Short Supply.**

The coal supply for the school buildings is the shortest ever known. The coal contractors have commenced putting in a lot which will run the furnaces for only a short while. The present contingent consists of four cars of coke and six cars of bituminous coal. It became apparent several weeks ago that the use of soft coal was a foregone conclusion, and now the supply of that fuel seems to be somewhat precarious. Usually at the opening of the schools there are 250 tons in the bunkers, but the present visible supply probably does not far exceed 100 tons each year. When the difference in the heating power of the two kinds is taken into consideration it is seen that the coal supply is not plentiful.

### SECRETARY SHAW'S DIRECTS OFFICERS TO CALL ATTENTION TO RULE FORBIDDING PARTISAN ACTIVITY.

Secretary Shaw has ordered the circular issued by the Civil Service Commission August 8, 1900, relating to political assessments, posted conspicuously in all offices under the jurisdiction of the Treasury Department. In his letter Mr. Shaw warns the officers and employees of the Treasury against political assessments and partisan activity, and says in part:

"Officers of the Treasury Department controlling the various branches of the service are hereby requested to sign and post conspicuously in their respective offices a copy of this circular, and otherwise to use every available means to direct the attention of their subordinates to the provisions thereof."

The following consular appointments have been approved by the Cuban senate:

Geneva, Dr. F. Falco; Lagayra, Dr. Luis Mazon; Liverpool, Dr. Guillermo Pignone; Marseille, Guillermo Pignone; St. Nazaire, Mamel Teodor; Barcelona, Enrique Ramsden, Santander, A. Palazuelo; Coruna, Antonio B. Zannett; Amberg, Cesar Pinto.

Cuban receipts and disbursements during the month of August were as follows:

Customs \$1,075,347.31  
Postal revenue 30,904.19  
Postal orders 33,400.00  
Internal revenue 54,341.57  
Miscellaneous receipts 15,678.71  
Refunds 28,820.29  
Police costs 3,857.17

Total receipts \$1,239,049.34  
On hand July 31, 1902 1,061,156.82  
Total \$2,300,206.16  
August disbursements 1,200,357.93  
Balance on hand August 31, 1902 \$1,099,848.23

**COL. F. S. TAPPAN  
INJURED IN ACCIDENT**

His Carriage Run Into by an Automobile While Out Driving in Tarrytown, N. Y.

TARRYTOWN, N. Y., Sept. 18.—Col. F. S. Tappan, of Washington, D. C., was badly injured in an accident this morning on Broadway. He was on his way to Dobbs Ferry to call on some friends there, and as his carriage passed Benedict Avenue an automobile, owned by G. G. Tyson, of Riverside, Conn., collided with it and he was thrown heavily to the street.

The colonel was unconscious and word was sent for the ambulance. He was taken to the hospital, where he now is. The doctors say that while no bones are broken he is badly injured.

Colonel Tappan was visiting in Tarrytown. He is a retired colonel, and is well known in Washington.

**HOTEL MAID TRIES SUICIDE.**

Drank Carbolic Acid, But Will Probably Recover.

Lillie Legg, sixteen years old, a maid employed at the Ebbitt House, attempted suicide last night by drinking carbolic acid. No reason can be assigned for the act, and the employees at the hotel are very reticent in regard to the matter.

A call was sent for the Emergency Hospital ambulance, and when the wagon arrived the young woman was found in a room on the third floor, which has been set apart for the help. She was unconscious, and when picked up an ounce vial which had contained carbolic acid was found near her.

It is expected she will be out within a few days.

**PRESIDENT ENTERTAINS  
VISITORS AT HOME**

(Continued from First Page.)

The Spanish-American War Veterans. An address of welcome will be delivered by Governor Durbin on behalf of the State, and by Mayor Bookwalter for the capital city. Senator Beveridge will introduce Mr. Roosevelt.

Following the addresses luncheon will be taken at the Columbia Club, and after a short rest the city the start will be made for Muncie, Ind.

**The Muncie Gas Wells.**

A drive throughout the natural gas well region will be taken at Muncie, followed by an address. The party will then push on to Fort Wayne, where the President will make an address in connection with the dedication of the court house.

The train will start for Milwaukee at 7:45 p. m., which place will be reached on Wednesday, September 24, at 3:15 a. m. At 9 o'clock the President will be escorted to the Soldiers' Home, from there he will address the National Civic Improvement League in convention there. Return to Minneapolis in Mr. Lowry's private car in time to take train at 11 p. m.

**The Itinerary.**

The following itinerary will then be followed:

Thursday, September 25.—La Crosse, Wis.: Arrive at 8:30 a. m.; leave at 10:45 a. m.; drive to fair grounds; address by the President, Minneapolis. Arrive at 11 p. m.; leave at 11:15 p. m. The President will go to the exposition at Minneapolis and make an address before the convention of employers and employees, at the conclusion of which the party will be taken in Hon. Thomas Lowry's private car to St. Paul, arriving there at about 6 p. m. In the evening the President will be entertained at dinner by the Roosevelt Club and citizens, afterward going to the Auditorium where he will address the National Civic Improvement League in convention there. Return to Minneapolis in Mr. Lowry's private car in time to take train at 11 p. m.

**In South Dakota.**

Friday, September 26.—Sioux Falls, S. D., Yankton, S. D., Sioux City, Iowa, Arion, Iowa, Denison, Iowa.

Saturday, September 27.—Kearney, Neb. The President and party will be met at depot by mayor and others and escorted to public square. Hon. Norris Brown to deliver address of welcome, to which the President will make response. Grand Island, Neb., Hastings, Neb., Lincoln, Neb., Fremont, Neb., Omaha, Neb. The President and party will be escorted to the Omaha Club, where dinner will be served at 6 p. m. At 8 p. m. the President will deliver an address on the electrical passage, following which he and his party will be conducted to the train.

**Sunday With Governor.**

Sunday, September 28, Topeka, Kan.—The President and party will leave train at 9 a. m., going to hotel. The President to attend church and dine with governor, accompanied by Secretary Cortelyou, Assistant Secretaries Loeb and Barnes, and Dr. Lang. In the afternoon, there will be an informal drive for the President, and any members of the party desiring to go. The President, accompanied by Secretary Cortelyou and Dr. Lang, will be the guests of Mr. Dow Sunday night. The remainder of the party will spend the night at the hotel.

Monday, September 29, Topeka, Kan.—At 9 a. m., the President will address a public meeting at the Auditorium, following which he and his party will be escorted to the train. Lawrence, Kan., Kansas City, Mo., and Kansas City, Kan. The President and party will be taken to hotel for luncheon, going thence to convention hall, where the President will address the people, followed by carriage drive to Kansas City, Kan., where a short address will be made. Leavenworth, Kan., Atchison, Kan., St. Joseph, Mo.

Tuesday, September 30, St. Joseph, Mo., Clarinda, Iowa, Van Wert, Iowa.

### RAFAEL MONTORO CUBAN MINISTER TO LONDON

Several Consular Officers Also Named at Havana—Receipts and Disbursements for August.

The Department of State has received the following information, under date of September 6, from United States Minister Squiers, at Havana:

Mr. Rafael Montoro has been nominated by the President as minister to London. The following consular appointments have been approved by the Cuban senate:

Geneva, Dr. F. Falco; Lagayra, Dr. Luis Mazon; Liverpool, Dr. Guillermo Pignone; Marseille, Guillermo Pignone; St. Nazaire, Mamel Teodor; Barcelona, Enrique Ramsden, Santander, A. Palazuelo; Coruna, Antonio B. Zannett; Amberg, Cesar Pinto.

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Colonel Tappan was visiting in Tarrytown. He is a retired colonel, and is well known in Washington.

**W. B. & A. Railroad Purchases Site for  
Plant in East Hyattsville.**

The Washington, Baltimore, and Annapolis Electric Railroad Company will build its main power station in East Hyattsville, having recently purchased a piece of land there. Work on the building will be begun immediately. The property was bought from J. Harris Rodgers and Philip Clark. The new plant will furnish power to the city and suburban electric roads, and the Kennedy Electric Road, the main line of the company from Washington to Baltimore, the Chesapeake Beach road, and its own lines from Bessy to Laurel. The electric light power for Hyattsville, East Hyattsville, Riverdale, and College Park will also be furnished by this plant.

**BOY HURT BY ELEVATOR.**

Son of Former Chief Boss Injured in Apartment House.

Richard L. Boss, the fourteen-year-old son of former Chief Boss, of the District Fire Department, had a narrow escape from death in the Plaza apartment house, on Pennsylvania Avenue, opposite Washington Circle, yesterday afternoon. He attempted to alight at the seventh story, when he was caught in the machine.

His right arm and two ribs were broken, and he was injured internally. The boy was removed to the Emergency Hospital shortly after the accident, and, after a very early hour this morning was resting easily.

**ANTI-TOBACCONISTS  
GRAVE INFORMATION**

Enthusiasts Communicate With District Commissioners Regarding Legislation.

The State Department yesterday forwarded to the District Commissioners a letter from Mr. William Todd, secretary of the Scottish Anti-Tobacco Society, of Edinburgh, asking for information concerning the existing legislation with reference to the sale and use of tobacco by minors.

The letter states application has been made to the State secretaries with the result that the only States and Territories that have not complied with the request for information are Alaska Territory, Arkansas, Delaware, Florida, Iowa, Louisiana, Missouri, North Dakota, South Carolina, West Virginia, and the District of Columbia.

Information is desired for the purpose of guiding the members of the society and others in their efforts to secure suitable legislation in that country. The desired information will be furnished the Anti-Tobacco Society at the earliest possible moment.

**DIED.**

KEENE—On Thursday, September 18, 1902, at 1 o'clock p. m., SA-4E, wife of Carter B. Keene.

POLY—The members of Washington Council, Knights of Columbia, are hereby notified of the sudden death by accident on Thursday morning, September 18, of Brother THOMAS J. POLY.

They, and the members of other councils of the order, are requested to attend the funeral services at St. Stephen's Church, Twenty-fifth Street and Pennsylvania Avenue, on Saturday morning, September 20, at 9 o'clock.

DR. A. D. WILKINSON, G. R. HENDLEY—On September 18, 1902, at 12:30 p. m., JOSEPHINE ALICE HENDLEY, only child of James A. and Eva A. Hendley.

HARRISON—On Wednesday, September 17, 1902, JOHN WALTER, beloved husband of Katherine A. and son of James T. and the late Sarah J. Harrison.

Funeral from his late residence, 923 Eleventh Street northwest, Friday, September 19, 1902, at 8:30 a. m., thence to St. Matthew's Church, where mass will be said for the repose of his soul.

**IN MEMORIAM.**

APPEL—In sad and loving remembrance of our little darling IRENE ELIZABETH APPEL, who was so suddenly taken from us just one year ago today, September 18, 1901.

Home is sad, God, how dreary;  
Lonesome, lonesome, every spot;  
We listen for her voice till weary,  
Vainly, for we hear her not.

The home is filled with lonely sighs,  
The sunshine long has fled;  
Come back and dry our lonely eyes,  
We can't believe you dead.

—Papa and Mama.

### IMPERIAL TROOPS HOLDING CHENG TU

(Continued from First Page.)

"Demand from local officials adequate protection for missionaries and native Christians, and keep them fully advised."

On the same day he sent a note to Prince Ching, minister of foreign affairs, urging strong efforts to stamp out the trouble. To this Prince Ching replied, including an imperial decree ordering the troops to disperse the rebels and punish the ringleaders. The prince expressed sorrow for what had occurred, and ordered that relief be given to those injured. The magistrate of Chentu was removed.

On July 29 Dr. Camrigh telegraphed: "Demand protection in vain. Massacre and robberies daily. All in great danger."

Mr. Conger, when he received this, sent another note to Prince Ching, telling him that the imperial edict had not answered the purpose, and urging more effective measures in order to avoid the fearful responsibility of a further loss of life and property.

Mr. Conger demanded full and complete protection for the many American missionaries in Sze-chuan province.

The response of Prince Ching, dated August 2, was that the leader of the rioters who had burned a church at Jen-Shou had been captured and beheaded, and that the Boxers had been routed by government troops, with a loss of three or four killed.

On August 7 the imperial government removed Kwei-Chun, the viceroy of Sze-chuan, and appointed Tsen-Chun-Han in his place. Mr. Conger said it would be a new victory, three months to reach his post, but that he hoped the news of his coming would tend to improve the situation.

**NELSON'S BAIL BOND  
FIXED AT \$10,000**

Alleged Firebug Unable to Furnish Surety in That Amount Up to Last Night.

Judge Nicoll, of the Alexandria county court, late yesterday afternoon fixed the bail for the release of John Nelson, who is under indictment for arson at Jackson City, at \$10,000. Nelson had up to a late hour last night been unable to secure bonds.

Nelson is to appear for second trial on Monday, September 22, for the alleged arson of the houses at Jackson city July 14 last.

**TO BUILD BIG POWERHOUSE**

W. B. & A. Railroad Purchases Site for Plant in East Hyattsville.

The Washington, Baltimore, and Annapolis Electric Railroad Company will build its main power station in East Hyattsville, having recently purchased a piece of land there. Work on the building will be begun immediately. The property was bought from J. Harris Rodgers and Philip Clark. The new plant will furnish power to the city and suburban electric roads, and the Kennedy Electric Road, the main line of the company from Washington to Baltimore, the Chesapeake Beach road, and its own lines from Bessy to Laurel. The electric light power for Hyattsville, East Hyattsville, Riverdale, and College Park will also be furnished by this plant.

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**EDUCATIONAL.**

**MEDICAL AND DENTAL  
DEPARTMENTS  
National University.**

A four years' course in medicine. A three years' course in dentistry. Entrance examination Friday, September 26, 1902, at 8 o'clock p. m. Session will begin Monday, October 6, 1902, at 8 o'clock p. m., with an introductory lecture by Prof. D. Olin Leach, M. D. For information apply to H. H. BARKER, M. D., 1116 H st. n. w.

Dean of the Medical Department, Dr. J. R. WALTON, D. D. S., 202 North Capitol st.

**GREGG SHORTHAND.**

No shade, no position. Half time of other systems. Record, 225 words per minute. Business practice method of teaching. Students entering daily. Managers have had 35 years' experience as teachers and accountants.

NATIONAL BUSINESS COLLEGE,  
1425 New York Ave.

**BLISS ELECTRICAL SCHOOL.**

Offers practical courses in applied electricity, complete in one year. Students taught the actual construction of electrical apparatus.

**REMOVED.**

to new and much larger quarters at 210 G st. n. w. Occupies entire building. Facilities better than ever. Opens September 29. Call or send for Catalogue.

**FRENCH LANGUAGE SCHOOL.**

Select Classical and Scientific School for Young Men and Boys. Begins its 51st year September 24. Prepares for the Universities, Colleges, West Point, and Annapolis, for Commissions in the Army and Navy, and for Business. Special department for boys from eight to twelve years of age. Students receive privilege of the Y. M. C. A. Gymnasium and Athletic Field. For information address

THE Y. M. C. A., 1116 H st. n. w., Bldg. 1.

**HOLY CROSS ACADEMY.**

Select school for young ladies and children. Academic and Preparatory Departments. Complete courses in Music and Art. Open September 15. 1312 Mass. ave. s. e. 30c

**Flynn's Business College.**

Day and Night Sessions, \$25 a year. Business, Shorthand, Typewriting.

### EDUCATIONAL.

**THE COLUMBIAN UNIVERSITY**

WASHINGTON, D. C.  
CHARLES W. NEEDHAM, LL. D., President.

The University opens its eighty-second year with better facilities than ever before. It offers complete Undergraduate, Graduate, and Professional courses of study in seven schools.

**BUILDINGS.**

UNIVERSITY HALL, cor. of H and 15th sts. The home of the College, the Scientific School, and the School of Graduate Studies.

LAW LECTURE HALL, 1320 H st. The home of the Law School and the School of Comparative Jurisprudence and Diplomacy.

MEDICAL AND DENTAL BUILDING, 1325 H st. The home of the Medical School and of the Dental School.

THE UNIVERSITY HOSPITAL, 1335 H st.

**THE COLLEGE.**

Classical course, leading to the degree of Bachelor of Arts.

Scientific course, leading to the degree of Bachelor of Science.

Many electives; well-equipped laboratories. Properly qualified students are admitted to special courses.

Entrance examinations will be held September 30 to 31.

Graduates of the Washington High Schools and of other accredited schools admitted without examination.

Classes are open to both men and women. Session begins Wednesday, September 24, at 9 a. m.

**CORCORAN SCIENTIFIC SCHOOL,**

H. L. HODGKINS, Ph. D., DEAN.

Instruction is offered in twenty-four departments, comprising one hundred and ninety-three courses. Effects distinction courses, lead to the degree of Bachelor of Science, including courses in general science, civil, mechanical, and electrical engineering, chemistry, meteorology, geology, architecture, economics, library science, language and literature, physics, mathematics, and biology.

Properly qualified men and women are admitted as candidates for degrees or as special students.

Session begins Wednesday, September 24, at 9 a. m.

**SCHOOL OF GRADUATE STUDIES.**

CHARLES E. MUNROE, Ph. D., DEAN.

Courses leading to the degrees of Master of Arts, Master of Science, Civil Engineer, Electrical Engineer, Mechanical Engineer, and Doctor of Philosophy open to men and to women who hold the necessary preliminary degrees.

Session begins September 24, at 4:30 p. m.

**LAW SCHOOL.**

CHARLES W. NEEDHAM, LL. D., DEAN.

A three years' course, leading to the degree of Bachelor of Laws, and a special course of one year in Patent Law, leading to the degree of Master of Patents.

The secretary will be present in the Law Lecture Hall daily from 9 a. m. to 5 p. m.

Session begins September 24, at 4:30 p. m. Lectures from 4:30 until 6:30 p. m.

**SCHOOL OF COMPARATIVE JURISPRUDENCE AND DIPLOMACY.**

CHARLES W.